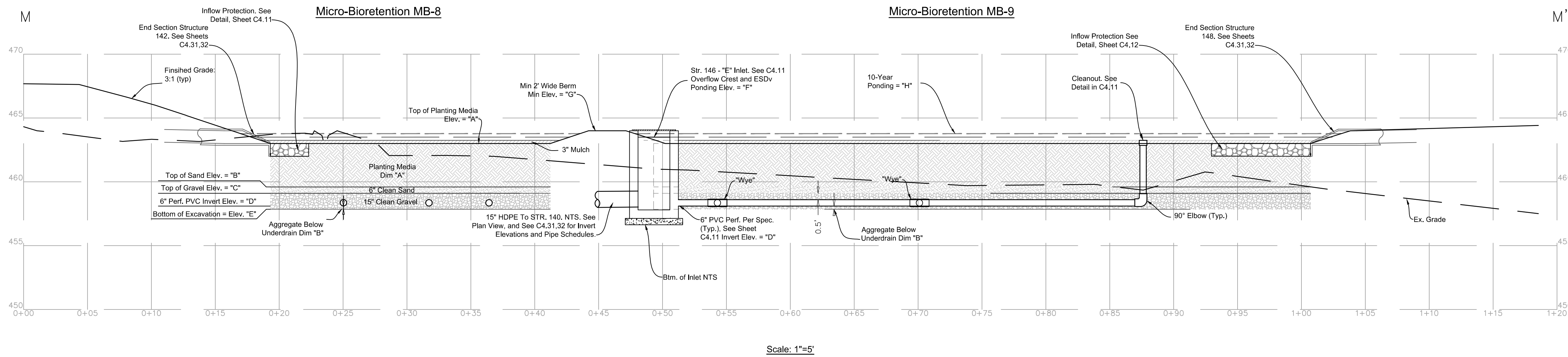


Micro-Bioretentation Detailed Plan View MB-8

MB-8
Total Perforated Underdrain Length: 59 FT

Micro-Bioretentation Detailed Plan View MB-9

MB-9
Total Perforated Underdrain Length: 97 FT



Scale: 1"=5'

CONSTRUCTION INSPECTION CHECK-OFF LIST FOR MICRO BIOTRETENTION FACILITY		MB-8		MB-9	
STAGE		MCDPS INSPECTOR	OWNER/ DEVELOPER	MCDPS INSPECTOR	OWNER/ DEVELOPER
		INITIALS/DATE	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 311). The DPS inspector may waive an inspection and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. <u>Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead.</u> Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.					
1. Excavation for Micro Bioretention facility conforms to approved plans					
2. Placement of stone backfill and underdrain system conforms to approved plans					
3. Placement of filter media conforms to approved plans					
4. Connecting pipes and/or grading conveyance to the facility constructed per the approved plans					
5. Final grading and permanent stabilization conforms to approved plans					

Design Engineer SWM Construction Observation Requirements

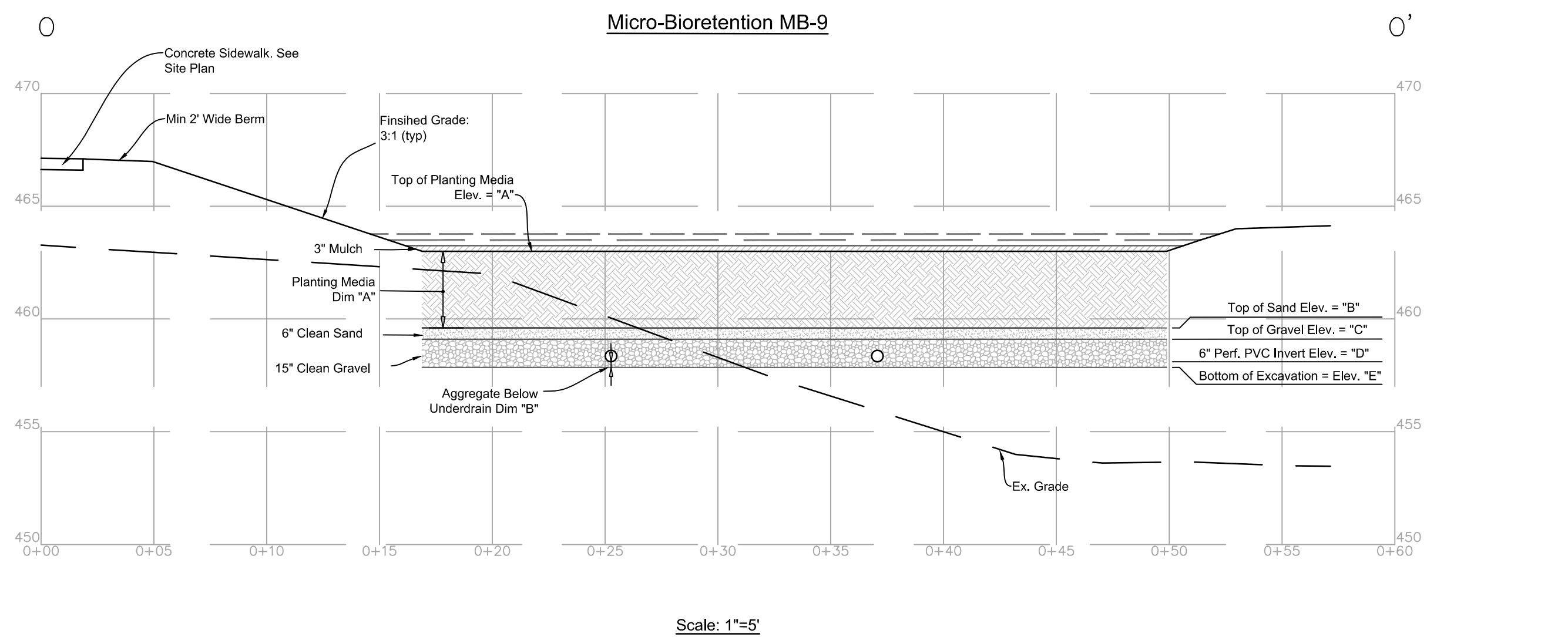
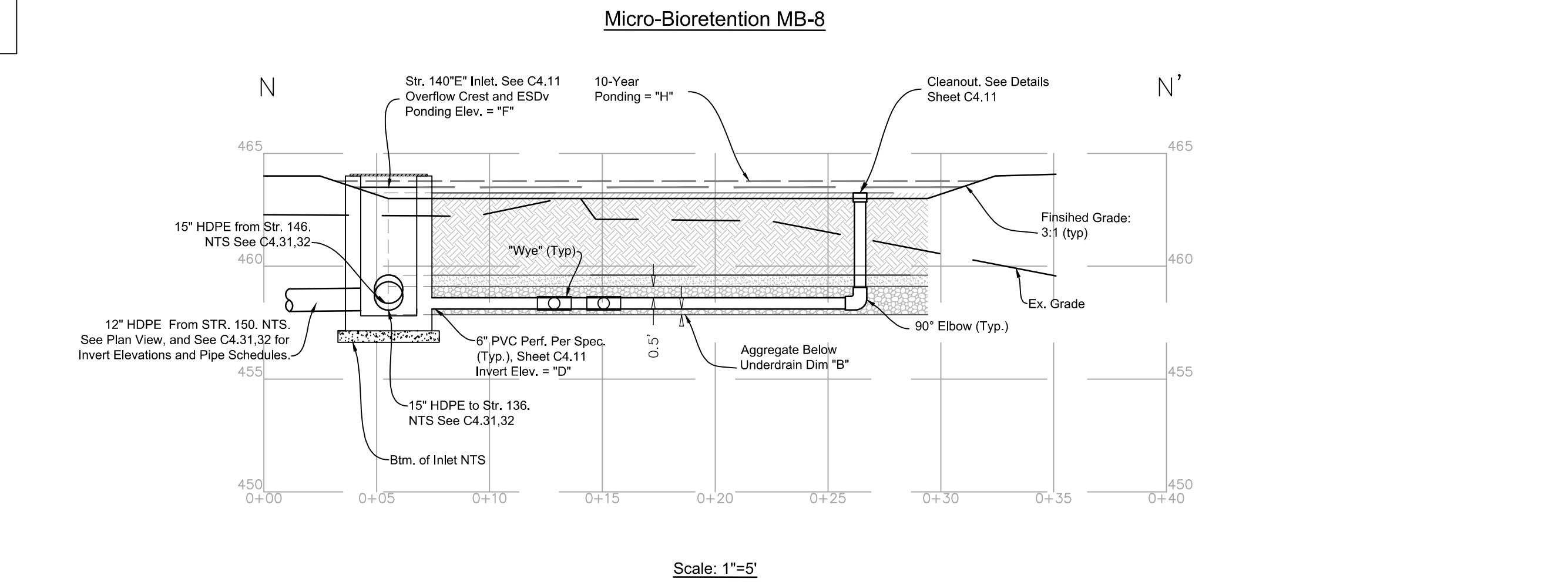
The contractor is required to contact the Design Engineer at (301) 670-0840 with at least 24 hours advance notice at the following stages of Micro-Bioretentation (MB), Micro-Bioretentation w/ Impervious Liner (MB(L)), Planter Box Micro-Bioretentation (PB), and/or Bio-Swale (BS) facility construction:

- Facility excavation: MB, MB(L), BS
- Concrete slab and wall form work: PB
- Installation of impervious liner: MB(L)
- Aggregate installation
- Underdrain layout and installation
- Sand layer installation
- Planting media installation
- SWM plantings and landscaping installation

Failure to notify the Design Engineer may necessitate SWM facility reconstruction.

BIORETENTION FACILITY MAINTENANCE SCHEDULE	
TASK	RECOMMENDED INTERVAL
INSPECT AND REPAIR SOIL EROSION	MONTHLY AND AFTER HEAVY RAINS
REMOVE LEAVES, DEBRIS, TRASH, SILT, ETC. & REPLACE MULCH LAYER	MINIMUM 2 TIMES PER YEAR (SPRING AND FALL)
INSPECT PLANTS FOR DAMAGE & DISEASE/PEST PROBLEMS PRUNE AND TREAT PLANTS AS NEEDED & AS APPROPRIATE PER SPECIES. REMOVE AND REPLACE DEAD AND DISEASED PLANTS CONSIDERED BEYOND TREATMENT	MINIMUM 2 TIMES PER YEAR (3/15-4/30 and 10/1-11/30)

SEE C4.11 FOR:
1. REQUIRED AGGREGATE GRADATION
2. SAND SPECIFICATIONS
3. BIORETENTION AREA PLANTING SOIL DOCUMENTATION REQUIREMENTS
4. MICRO-BIORETENTION AREA SPECIFICATIONS



Micro-Bioretentation Facility MB-8 and MB-9 Design Information			
ID	Descriptor	Facility MB-8	Facility MB-9
Elev. "A"	Top of Planting Media	As-Built 463.00'	463.00'
Elev. "B"	Top of Sand	Design 459.50'	459.50'
Elev. "C"	Top of Gravel	Design 459.00'	459.00'
Elev. "D"	PVC Underdrain Invert	As-Built 458.00'	458.00'
Elev. "E"	Bottom of Excavation	Design 457.75'	457.75'
Elev. "F"	Overflow & ESDv Ponding Elev.	Design 463.50'	463.50'
Elev. "G"	Min. Top of Berm	Design 464.00'	464.00'
Elev. "H"	10-Year Ponding Elev.	Design 463.68'	463.81'
Dim. "A"	Planting Media Thickness	Design 3.50'	3.50'
Dim. "B"	Aggregate Below Underdrain	Design 0.25'	0.25'
Facility Surface Area		Design 575 sq. ft.	1,271 sq. ft.
ESDv Provided		Design 1,247 cu. ft.	2,727 cu. ft.
Receiving Storm Drain Str.		140	146
*See Detailed Plan Views & Details for More Dimensions.			

NOTE: Contractor shall confirm that dimensions, inflow locations, roof leader locations and other design elements of ALL ESD/SWM facilities as shown on these plans are coordinated with architectural and other trade plans. If any discrepancies are found, the Contractor is to contact the design engineer and architect prior to proceeding with construction. Site utilities are to be constructed in locations shown. If a utility location is changed and is found to conflict with a ESD/SWM facility, the facility must be reviewed and approved by the County, Design Engineer, Architect and appropriate trade prior to utility construction. Modifications to the Stormwater Management Plan will require a formal revision to the plan with the Montgomery County Department of Permitting Services, which will include applicable plan revision fees, and may not be acceptable.

SWM MB-8, MB-9 PLAN VIEW AND DETAILS

ARCHITECT



9211 CORPORATE BLVD, SUITE 340
ROCKVILLE, MD 20860
301-770-8177(P) 301-338-3224(F)

CIVIL
MACRIS, HENDRICKS &
GLASCOCK
9220 WIGHTMAN RD, SUITE 120
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STRUCTURAL
COMPREHENSIVE
STRUCTURAL SOLUTIONS
9220 WIGHTMAN RD, SUITE 120
MONTGOMERY VILLAGE, MD 20886
240-200-5599(P)

MECH/ELECTRICAL/PLUMBING
JAMES POSEY ASSOCIATES

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NYIKOS-GARCIA
FOODSERVICE DESIGN, INC
18219-A FLOWER HILL WAY
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240-683-9530 (P)

SUSTAINABILITY
DOO CONSULTING, LLC

531 PICCADILLY ROAD
BALTIMORE, MD 21204
443-663-3792 (P)

CONSTRUCTION MANAGER
SKANSKA USA BUILDING INC.

700 KING FARM BLVD, SUITE 200
ROCKVILLE, MD 20860
301-795-3100 (P)

Professional Certification. I
hereby certify that these
documents were prepared or
approved by me, and that I am a
duly licensed Professional
Engineer under the laws of the
State of Maryland, License No.:
16905, Expiration Date: 4.21.2022.

PROFESSIONAL SEAL:

PRINTS ISSUED

NO.	DESCRIPTION:	DATE:
1	BID DOCUMENTS	10/21/2020
2	ADDENDUM #2	11/25/2020
3	ADDENDUM #3	12/01/2020
4	ADDENDUM #4	12/03/2020

TAX MAP FTR2
PLAT 12762
9TH ELECTION DISTRICT
CITY OF GAITHERSBURG, MD

GAITHERSBURG
CLUSTER
ELEMENTARY
SCHOOL #8

MONTGOMERY
COUNTY PUBLIC
SCHOOLS

SHEET TITLE:
SOIL EROSION,
SEDIMENT CONTROL,
AND STORMWATER
MANAGEMENT PLAN

PROJECT NO:

19007

DATE:

12/04/20

SCALE:

1"=30'

SHEET NO:

C4.05

Sheet 11 of 28